



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

2631
JFW

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 5

Application Number	10/502,512
Filing Date	July 23, 2004
First Named Inventor	Shinichiro Takabayashi, et al.
Art Unit	2631
Examiner Name	To Be Assigned
Attorney Docket No.	MAT-8575US

ENCLOSURES (Check all that apply)

- Fee Transmittal Form
 - Fee Attached
- Amendment/Reply
 - After Final
 - Affidavits/Declaration(s)
- Extension of Time Request
- Express Abandonment Request
- Information Disclosure Statement
- Certified Copy of Priority Document(s)
- Response to Missing Parts/Incomplete Application
 - Response to Missing Parts under 37 CFR 1.52 or 1.53

- Drawing(s)
- Licensing-related Papers
- Petition
- Petition to Convert to a Provisional Application
- Power of Attorney, Revocation, Change of Correspondence Address
- Terminal Disclaimer
- Request for Refund
- CD, Number of CD(s) _____
 - Landscape Table on CD

- After Allowance Communication to TC
- Appeal Communication to Board of Appeals and Interferences
- Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
- Proprietary Information
- Status Letter
- Other Enclosure(s) (please identify below): Request For Corrected Filing Receipt; Copy of Filing Receipt; Copy of PCT Publication Cover Page; Return Receipt Postcard

Remarks:

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

Firm Name RatnerPrestia

Signature

Printed Name Lawrence E. Ashery

Date June 9, 2005

Registration No. 34,515

CERTIFICATE OF TRANSMISSION / MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

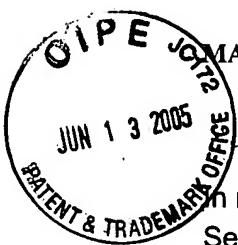
Signature

Typed or Printed Name Donna M. Wellings

Date June 9, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



MAT-8575US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Shinichiro Takabayashi, et al.
Serial No.: 10/502,512
Filed: July 23, 2004
For: DISTORTION COMPENSATOR

Group No.: 2631
Examiner: To Be Assigned

Filing Receipt Corrections
Office of Initial Patent Examination
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

1. Attached is a copy of the official filing receipt received from the PTO in the above application for which issuance of a corrected filing receipt is respectfully requested.
2. There is an error with respect to the following data:

Incorrectly entered and/or omitted

Error in	Correct data
1. <input type="checkbox"/> Applicant's name	1.
2. <input type="checkbox"/> Applicant's address	2.
3. <input type="checkbox"/> Title	3.
4. <input type="checkbox"/> Filing Date	4.
5. <input type="checkbox"/> Serial Number	5.
6. <input type="checkbox"/> Foreign/PCT Application Reference	6.
7. <input checked="" type="checkbox"/> Other - Domestic Priority Data (date should be 06/04/2003 as indicated on the PCT Publication Cover page)	7. 06/04/2003

3. No fee is due.

RatnerPrestia
P. O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

Respectfully submitted,

Lawrence E. Ashery, Reg. No. 34,515

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Filing Receipt Corrections, Office of Initial Patent Examination, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: June 9, 2005

Donna M. Wellings
Donna M. Wellings



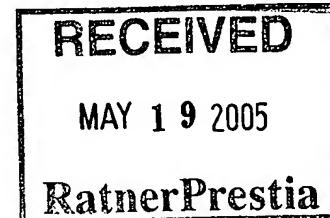
UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/302,512	07/23/2004	2631	920	MAT-8575US	6	4	2



RATNERPRESTIA
 P O BOX 980
 VALLEY FORGE, PA 19482-0980



CONFIRMATION NO. 5928
 FILING RECEIPT

 OC000000016033408

Date Mailed: 05/17/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Shinichiro Takabayashi, Kanagawa, JAPAN;
 Masato Ukena, Kanagawa, JAPAN;
 Masayuki Orihashi, Chiba, JAPAN;

COPY

Power of Attorney: The patent practitioners associated with Customer Number 23122.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/07064 06/06/2003

Foreign Applications

60/104,2603

JAPAN 2002-163950 06/05/2002
 JAPAN 2003-128756 05/07/2003

Projected Publication Date: 08/25/2005

Non-Publication Request: No

Early Publication Request: No

Title

Distortion compensator

Preliminary Class

375

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

COPY

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
18 December 2003 (18.12.2003)(10) International Publication Number
WO 03/105336 A1(51) International Patent Classification⁷: **H03F 1/32**

(JP). ORIHASHI, Masayuki [JP/JP]; 1-12-1-302, Futa-mata, Ichikawa-shi, Chiba 272-0001 (JP).

(21) International Application Number: **PCT/JP03/07064**

(74) Agents: IWASHI, Fumio et al.; c/o Matsushita Electric Industrial Co., Ltd., 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP).

→ (22) International Filing Date: **4 June 2003 (04.06.2003)**

(25) Filing Language: English

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(30) Priority Data:

2002-163950 5 June 2002 (05.06.2002) JP

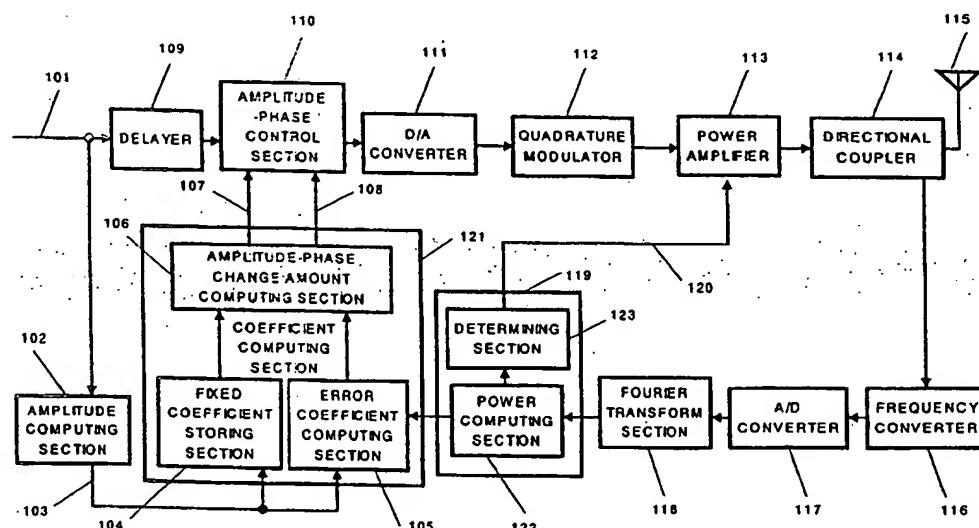
2003-128756 7 May 2003 (07.05.2003) JP

Published:

— with international search report

[Continued on next page]

(54) Title: DISTORTION COMPENSATOR



COPY

WO 03/105336 A1

(57) Abstract: A coefficient computing section (121), for computing a characteristic reverse to an input/output characteristic of the power amplifier (113), is configured by a fixed coefficient storing section (104) and an error coefficient computing section (105). The fixed coefficient storing section (104) is previously stored with the characteristic reverse to a pre-measured input/output characteristic. The error coefficient computing section (105) computes an error coefficient between a characteristic stored in the fixed coefficient storing section (104) and a current characteristic of the power amplifier (113). When the determining section (123) determines that the adjacent-channel leak current power ratio is greater than a predetermined value, an operation halt is instructed to the power amplifier (113). With this structure, rapid convergence is possible in adapting operation for follow-up the characteristic variation of the power amplifier (113). Furthermore, interference to the adjacent channel due to distortion abnormality in the power amplifier (113) can be prevented.



- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.